

## ABSTRACT OF THE DISCLOSURE

This invention is a disposable cartridge for use at the patient side to perform traditional coagulation assays on fresh whole blood or blood derivative samples. The cartridge, in use with an electronic analyzer allows a fluid sample to be metered and quantitatively mixed with reagents which activate the coagulation cascade. An artificial 5 substrate for thrombin, the enzyme whose action results in clot formation is also provided. Clot formation is subsequently detected using a microfabricated sensor also housed within the cartridge which detects electrochemically the product of the thrombin reaction upon the synthetic substrate.

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